



Adaptation in Forests Environment

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**Parallel Panels 2: “ADAPTATION IN SYSTEMS AND PLACES”
(ASFN Chairman/Cambodia, ASFNSEC Chairperson/Indonesia, RECOFTC, Nepal, KEI)
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Climate Change Adaptation & Adaptive Capacity:

- **Climate Change:**

Any changes in climate over time, whether due to natural variability or as a result of human activity (IPCC, 2001).

- **Climate Change Adaptation:**

Responses to the changing climate (e.g. acclimatization in humans) and policies to minimize the predicted impacts of climate change (e.g. building better coastal defenses) (UNFCCC)

- **Adaptive Capacity:**

The ability of a system to adjust to climate change (including climate variability and extremes) to moderate potential damages, in order to take advantage of opportunities, or to cope with the consequences (IPCC).

Linkages between Forests and Adaptation are twofold

- **Adaptation for Forests**

- Climate Change will affect forests
- Adaptation measures needed for forests

New challenges -> understanding impacts, adapting management

- **Forests for Adaptation**

- Forest ecosystems contribute to social adaptation
- They provide ecosystem services that reduce the vulnerability of local communities and the broader society

New challenges -> forests in adaptation of sectors outside of the forest sector

Ecosystem-Based Adaptation:

- **Forests and Local People**

- Climate events affect local people,
- Forests Products less sensitive to Climate than Agriculture Products,
- Forests provide Safety Net,
- **Better Forest Management: Adaptation.**

- **Social Forestry & CC Adaptation**

- Social Forestry offers great potential to increase Communities' resilience to the impact of Climate Change,
- Forests help diversify Livelihoods (Food Security),
- Buffering Communities from Natural Disasters (e.g. Mangrove Forests).

SOCIAL FORESTRY:

- **Key Principle of Social Forestry:**

Community Empowerment

- **Key Approaches for Social Forestry:**

- 1) Providing Access to Community in Sustainable Forest Management
- 2) Capacity Building.

- **Social Forestry in Indonesia:**

Participation of Community in Sustainable Forest Management (SFM) while improving the Welfare of the Community living within and surrounding the Forests.

REGULATIONS AND POLICIES RELATED SF AND CLIMATE CHANGE

1. Minister of Forestry Regulations Related SF Issues :

- No. P.37/2007; revised by No.18/2009, and No. 13/2010, Concerning Community Forest.**
- No. P.49/2008; Concerning Village Forest**
- No. P.35/2007; Concerning Development of Non-Timber Forest Product.**
- No. P.26/2005; Concerning Development of Private Forest.**

2. Minister of Forestry Regulation Related Climate Change issues :

- No. P.20/Menhut-II/2012 about carbon mechanism**
- No. P.30/Menhut-II/2009 about REDD mechanism**
- No. P.36/Menhut-II/2009 about legal mechanism of carbon trading on Production Forest and Protection Forest**
- No. 68/Menhut-II/2008 about DA on REDD**

NATIONAL POLICIES :

1. Target areas Establishment in 2010 – 2014 :

- Community forest : 2 million hectares, or 400,000 ha/year**
- Village forest 5 hundred hectares, or 100,000 ha/year**
- Private forest 250,000 hectares**
- People Forest Planted Enterprises (HTR), 550.000 hectares/years.**

2. Provision access to Capital, Soft Loan for Forest Farmers

3. National Policy on reducing emission of 26% up to 2020 (business as usual) and 41 % with contribution from developed countries

4. Establishment of National Board and Working Group on Climate Change

SOCIAL FORESTRY SCHEMES

State Forest :

- Community Forest (Hutan Kemasyarakatan)**
- Village Forest (Hutan Desa)**
- People Planted Forest Enterprises (HTR)**
- Conservation Village (Desa Konservasi)**

Community owned forest :

- Private forest (Hutan Rakyat)**

MAJOR ACTIVITIES (Related SF)

State Forest :

- Community Forest (Hutan Kemasyarakatan)**
- Village Forest (Hutan Desa)**
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Community owned forest :

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SF Contribution to CC Adaptation:

Case of Village Forest Bantaeng, South Sulawesi

- **Strengthening Forests as Buffer Systems in Adapting to Climate Change:**
 - Development of piping system with gravity power in providing clean water supply from Village Forest for local community,
 - Payment of Village Forest water supply by community for maintaining water supply infrastructure and cash saving.
- **Promoting Diversity of Forest Products:**
 - Developing cultivation of multi-purpose tree species,
 - Developing Non-Timber Forest Products, i.e. Development of Community-Based Forest Honey Cultivation.
- **Promoting Resilience, Reducing Vulnerability:**
 - Strengthen community institution through Village Forest,
 - Develop and maintain community-based micro-financing & payment mechanisms, through Community Institution practicing Village Forest.

Challenges:

- **Closing the Gap between National and Sub National/Provincial Initiatives:**
 - The need of quantifying sectoral contributions to national and sub-national scale,
 - The need for legislative reviews and coordination (and implementation) particularly for land-use related policies,
 - Establish information flows and learning mechanisms to analyze past experiences and current pilot activities.
- **Addressing Drivers of Climate Change:**
 - Linking the importance of Forests with other Landscape Use,
 - Linking Policies of Forestry sector with other National Policies affecting Forests (i.e. Economic Development Plan),
 - Greater recognition of Social Forestry in relevant Policies.

References:

- IPCC: <http://www.ipcc.ch/>
- UNFCCC: <http://www.unfccc.int/2860.php>
- UNDP: <http://www.unep.org/climatechange/>
- IUCN: <http://www/iucn.org/tpas/climate/>
- RECOFTC: <http://www.recoftc.org/>
- CIFOR: <http://www.cifor.org/climatechangetoolbox/>
- Indonesia's Social Forestry Country Report 2012,
- ASFN Exchange Programme, 3-8 February 2013,
- Fact Sheet on Village Forest in Bantaeng,
- Fact Sheet on Community Forest in Sesaut and Gunung Kidul,
- CARE: <http://www.careclimatechange.org/>
- GIZ: <http://www.gtz.de/en/themen/25485.htm>